14/87

217/782-0610

Arrow Gear Company Downers Grove NPDES Permit No. IL0038016 Final Permit

DEC 2 2 1900

Arrow Gear Company 2301 Curtiss Street Downers Grove, Illinois 60515

Gentlemen:

Attached is the final NPDES Permit for your discharge. The Permit as issued covers discharge limitations, monitoring, and reporting requirements. The failure of you to meet any portion of the Permit could result in civil and/or criminal penalties. The Illinois Environmental Protection Agency is ready and willing to assist you in interpreting any of the conditions of the Permit as they relate specifically to your discharge.

The Permit as issued is effective as of the date indicated on the first page of the Permit. You have the right to appeal any condition of the Permit to the Illinois Pollution Control Board prior to the effective date.

Should you have questions concerning the Permit, please contact Yogesh Sheth at the telephone number indicated above.

<u>Very truly your</u>

Thomas G. McSwiggin,

Manager, Permit Section

Division of Water Pollution Control

TGM: TRK: YVS: sd/8195c/45

Enclosure: Final Permit

cc: USEPA/With Enclosure

Region II/With Enclosure

Permit Section Records Unit

Consulting Engineer

NPDES Permit No. IL0038016

Illinois Environmental Protection Agency

Division of Water Pollution Control

2200 Churchill Road

Springfield, Illinois 62706

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date:

October 1, 1988

Issue Date: December 22, 1983

Effective Date: January 21, 1984

Name and Address of Permittee:

Facility Name and Address:

Arrow Gear Company 2301 Curtiss Street

Downers Grove, Illinois 60515

Arrow Gear Company 2301 Curtiss Street

Downers Grove, Illinois 60515

DuPage County

Discharge Number and Name:

001: Furnace Cooling Water

Receiving Waters

St. Joseph Creek, tributary to the East Branch of the

DuPage River

In compliance with the provisions of the Illinois Environmental Protection Act, Subtitle C and/or Subtitle D Rules and Regulations of the Illinois Pollution Control Board, and the FWPCA, the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

> Thomas G. McSwiggin. P.& Manager, Permit Section

Division of Water Pollution Control

TGM: TRK: YVS: sd/sp/8197c

emperature See Special Condition No. 2

NPDES Permit No. IL0038016

Effluent Limitations and Monitoring

	LOAD L lbs/		CONCENT			
ARAMETER	30 DAY AVG.	MAX.	30 DAY AVG.	DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
		this permit until the shall be monitored an				effluent
	Outfall(s):	001			•	
Flow (MGD)					1/Month	Instan- taneous
эН	See Special	Condition No. 1			1/Month	Grab

1/Month

Grab

NPDES Permit No. IL0038016

Special Conditions

- 1. The pH shall be in the range 6.0 to 9.0.
- 2. Discharge of wastewater from this facility must not alone or in combination with other sources cause the receiving stream to violate the following thermal limitations at the edge of the mixing zone which is defined by Section 302.211, Illinois Administration Code, Title 35, Chapter 1. Subtitle C. as amended:
- A. Maximum temperature rise above natural temperature must not exceed 5°F (2.8°C).
- B. Water temperature at representative locations in the main river shall not exceed the maximum limits in the following table during more than one (1) percent of the hours in the 12-month period ending with any month. Moreover, at no time shall the water temperature at such locations exceed the maximum limits in the following table by more than 3°F (1.7°C). (Main river temperatures are temperatures of those portions of the river essentially similar to and following the same thermal regime as the temperatures of the main flow of the river.)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	<u>Dec.</u>
°F	60	60	60	90	90	90	90	90	90	90	90	60
оС	16	16	16	32	32	32	32	32	32	32	32	16

- 3. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.
- 4. The permittee shall record monitoring results on Discharge Monitoring Report forms using one such form for each discharge each month. The completed Discharge Monitoring Report form shall be submitted monthly to IEPA, no later than the 15th of the following month, unless otherwise specified by the Agency, to the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control Compliance Assurance Section 2200 Churchill Road Springfield, Illinois 62706

5. For the purpose of this permit, this discharge is limited solely to furnace cooling water free from other process wastewater discharges.

Standard Conditions

Definitions

Act means the Illinois Environmental Protection Act, Ch. III 1/2 $\overline{\text{III}}$, $\overline{\text{Rev. Stat.}}$, Sec. 1001-1051 as Amended.

Agency means the Illinois Environmental Protection Agency.

Board means the Illinois Pollution Control Board.

Chapter 3 means the Illinois Pollution Control Board Rules and Regulations, Chapter 3: Water Pollution.

Clean Water Act (formerly referred to as the Federal Water Pollution London: Act) means Pub. L. 92-500, as amended. 33 U.S.C. 1251 et seq.

HPDES (National Pollutant Discharge Elimination System) means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318 and 405 of the Clean Mater Act.

USEPA means the United States Environmental Protection Agency.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the rotal mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

Maximum Daily Discharge Limitation (daily maximum) means the highest allowable daily discharge.

Average Monthly Discharge Limitation (30 day average) means the highest alloweble average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Meekly Discharge Limitation (7 day average) means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Allount means a sample of specified volume used to make up a total composite sample.

Grah Sample means an individual sample of at least 100 milliliters collected at a randomly-selected time over a period not exceeding 15 minutes.

24 Hour Composite Sample means a combination of at least 8 sample allounts of at least 100 milliliters, collected at periodic intervals foring the operating hours of a facility over a 24-hour period.

Discrete Composite Sample means a combination of at least 3 sample aliquots of it least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 8-hour period.

The proportional Composite Sample means a combination of sample aliquots of at least 100 millifers collected at periodic intervals such that are the time interval between each aliquot or the volume of each in proportional to either the stream flow at the time of sampling the collection of the previous aliquot.

- The permitter must comply with all conditions of the commit. Any permit mencembliance constitutes a violation of the drawn is around: for enforcement action; for permit termination, control and reissuance, or medification; or for denial of a permit mental application. The permittee shall comply with effluent condens or permittees that comply with effluent condens or permittees established under section 307(a) of the films Meter Act for toxic pollutants within the time provided in the conditions that establish these standards or prohibitions, even if the normal has not set been modified to incorporate the requirement.
- of a reapply. If the permittee wisnes to continue an activity consisted by this permit after the expiration date of this permit. If the continue state of the specific confirmation must apply for and obtain a new permit. If the confirmation schedule is proper application as required by the Agency no later than IBO day prior to the expiration date, this permit shall continue in full force and effect until the final Agency decision on the application has been made.
- (3) Duty in halt or reduce activity. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. Upon reduction, loss, or failure of the treatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control production or all discharges or both until the facility is restored, or an alternate method of treatment is provided. This requirement applies, for example, when the primary source of power of the treatment facility fails, is reduced, or lost.
- (4) Duty in mitigate. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.
- (5) Proper operation and maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of

this permit. Proper operation and maintenance includes effective performance, adequate fundine, adequate operator staffine and trainine, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities, or similar systems only when necessary to achieve compliance with the conditions of the nermate.

- (6) Permit actions. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated nencompliance, does not stay any permit condition.
- (7) Property rights. This permit does not convey any property rights of any sort, or any exclusive privilege.
- (8) Duty to provide information. The permittee shall furnish to the Amercy within a reasonable time, any information which the Amercy may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Amercy, upon request, copies of records required to be kept by this permit.
- (9) Inspection and entry. The permittee shall allow an authorized representative of the Agency, upon the presentation of credentials and other recuments as may be required by law, to:
 - (a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
 - (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit:
 - (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance, or as otherwise authorized by the Act, any substances or parameters at any location.

(10) Monitoring and records.

- (a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- (b) The permittee shall retain records of all monitoring information, including all calibration and maintenance records, and all original strip chart recordines for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period may be extended by request of the Agency at any time.
- (c) Records of monitoring information shall include:
 - (1) The date, exact place, and time of sampling or measurements:
 - '2) The individual(s) who performed the sampling or measurements;
 - (3) The date(s) analyses were performed;
 - (4) The individual(s) who performed the analyses;
 - (5) The analytical techniques or methods used; and
 - '61 The results of such analyses.
- Annitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. Where no test procedure under 40 CFP Part 136 has been approved, the permittee must within the Agency a test method for approval. The permittee thail calibrate and perform maintenance procedures on all permitting and analytical instrumentation at intervals to ensure accuracy of measurements.
- (11) Signatury requirement. All applications, reports, or information submitted to the Adency shall be stoned and performed.
 - (a) <u>Annications</u>. All permit applications shall be signed as follows:
 - (1) for a comparation: by a principal executive officer of at least the level of vice president;
 - (2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - (3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official.
 - (b) Reports. All reports required by permits, or other information requested by the Agency shall be signed by a person described in paragraph (a) or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - $73\,^{\circ}$ The authorization is made in writing by a person described in paragraph (a); and
 - f2 The authorization specifies either an individual or a position responsible for the overall operation of the facility from which the discharge originates, such as a plant manager, superintendent or person of equivalent responsibility; and

- written authorization is submitted to the (3) The
- (c) Changes to Authorization. If an authorization under (b) in no invasor accurate because a different individual or position has responsibility for the overall operation of the facility, use authorization satisfying the resurrements of (b) must be submitted to the Aency prior to or together with any reports, reports increasion, or applications to be stoned by an authorized representative.
- Reporting requirements. (21)
- (a) Planner Changers. The permittee shall give notice to the Abancy as soon as possible of any planned physical alternations or additions to the permitted facility.
- (b) Articipated noncompliance. The permittee shall give advance notice to the "deney of any planned changes in the permitted facility on activity which may result in noncompliance with permit rediving noncompliance with permit redivingents.
 - (c) Compliance schedules. Reports of compliance or energiage lance and energy lance with, or any propress reports on, interies and final requirements contained in any compliance schedule of this security thail be submitted no later than 14 days following each schedule date.
- (d) Monitoring reports. Monitoring results shell be reported the intervals specified elsewhere in this permit.
- (1) Monitoring results must be reported on a Discharde-Monitoring Report (OMR).
- (2) if the permittee monitors any pollutant more frequently than important by the permit, using test procedures approved under 40 CFR 125 or as specified in the permit, the results of this monitoring shall he included in the CRE. Calculation and reporting of the CRE submitted in the DPR.
 - (3) Calculations for all limitations which require against consistence of measurements shall utilize an arithmetic mean uniess steems specified by the Agency in the permit.
- (e) Twanty-frue hour respecting. The permittee shall report any mencomplience which may endanger health or the environment. May incremation shall be provided mailly within a hours from the interpretaints shall be provided within 5 days of the time the carmittee becomes aware of the circumstances. A written submission shall be also becomes aware of the circumstances. The written submission shall contain a description of the writings of a six of states and times; and if the noncompliance on the circumsted the earlied to reduce, a lawing to any prawmit and contrained and prawmit encourance of the noncompliance. I maintake, and prawmit encourance of the noncompliance. The following shall be confident as information which must be reported within 24 hours:
- ()) Any unanticipated hybass which exceeds any effluent limitarian in the permit;
- (2) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Agency in the permit to resorted within 24 hours;
- The Agency may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
- (*) Other noncompliance. The permittee shall report all instances of noncompliance not reported under paraborable [12]; c. (d. or [e], at the time monitoring reports are submitted. The reports shall contain the information listed in paraboral [12][e].
- (o) Other information, Where the permittee becomes aware that it failed to submit application, or submitter incorrect information in a permit application, or in any refert to the Adency, it shall promptly submit such facts or information.
- Transfer of permits. A Dermit may be automatically transferred to a new permittee of
- (a) The current permittee notifies the Adency at least 30 days in anyance of the proposed france date;
- (b) The netice includes a writter agreement between the existing and new cermittees containing a specific date for transfer of new resonsibility, coverage and liability between the currant and new permittees; and
 - ir The Agency does not notify the existing permittee and the proposer new permittee of its "rient to modify or revoke and nessue" he permit. If this notice is not received, the transfer is effective on the date specified in the agreement.
- All manufacturing, commercial, mining, and silvicultural dischargers must netify the Agency as soon as they anow or have reason to helieve:
- (a) That any activity has occurred or will occur which would result in the discharge of any toric pollutant identified under Section 30 of the Calen water Act which is not limited in the following of the will ascend the highest of the following notification levels:
 - (1) One hundred microarams per liter (100 ua/1);
- [2] the hundred microdiams per liter (200 ud/1) for acroless and acrylonitrile; five hundred microdiams per inter (500 ud/1) for 2,4-diritrophenol and for for camping and for five for the formation and for for formations of fo

- five (5) times the maximum concentration value reporter that pollutant in the MPDES permit application; or
 - (4) The level established by the Amency in this permit.
- (b) That they have been or expect to begin to use or sensitivities as an intersediate or final product or byproduct. Lostic pollutent which was not reported in the HPUES permit application.
- all Publicly Gamed Treatment Works (POTMs) must provide adequate notice to the Agency of the following: (15)
- (a) Any new introduction of politicants into that POTM fram an indirect distractors with would be subject to sections 301 or cot the Class Matter Act if it were directly discharging those politicants; and
 - (h) Any substantial change in the volume or character of cellusers being introduced into that POIM by a source introducing pollutants into the POIM at the time of issuance in permit.
- (c) for purretes of this paracraph, adequate mittee shall include information on (i) the quality and quentity of efficient introduced into the FOTM, and (ii) any articloated impact of the change on the quantity or quality of efficient to be discharged from the POTM.
- lf the permit is issued to a publicly owned or publicly requilated treatment works, the benefittee shall require any industrial user of such treatment works to comply with federal requirements conterning: <u>()</u>
- []) User charges pursuent to Section 204(b) of the Clean Mater Act, and applicable resulations appearing in 40 CFR 35;
- (2) Toxic pollusant effluent standards and pretreatment standards pursuant to Section 307 of the Clean Water Act; and
- $\left(3 \right)$ inspection, manitoring and entry pursuant to Section 308 of the Chear Water Act.
- If an applicable standard or limitation is promulaated under Section 301(b)(2)(C) and (0), 304(b)(2), or 307(b)(2) and that serious standard or limitation is more stringent than any serioust limitation in the permit, or controls a pollutant not limited in the permit, the permit, shall be promptly wedfilled or revokeed, and reissued to conform to that effluent standard or limitation. 3
- Any authorization to construct issued to the permittee pursuant to Apie 910(n) is hereby incorporated by reference as a condition of this permit. 18
- The permittee shall not make any false statement, representation or certificialing in my application, record, report, plan or other occurrent submitted to the Agency or the LISEPA, or resulted to the amount and amount of the maintained under this permit. 6.
- ê
- The Clean Water Act provides that any person who faisiffles, tamoers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit sail, upon conviction, be buished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.
- The Clean Mater Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or reduired to be maintained under this permit, including monitoring reports or reports or respons compliance or non-compliance or on false gail, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by increased for not more than 6 months per violation, or by (22)
- Collected screenings, slurries, slurdes, and other solids shall be disposed of in such a namer as to prevent entry of those wastes (or runnof from the wastes) into waters of the State.
 The proper authorization for such disposal shall be obtained from the Agency and is incorporated as part herent by reference. <u>2</u>
- In case of conflict between these standard conditions and any other condition(s) included in this permit, the other condition(s) shall govern. (54)
- (52)
- The permittee shall comply with, in addition to the requirements of the permit, all applicable provisions of Chapter 3, Chapter 4, Chapter 5, and all applicable orders of the Board. The provision of this permit are severable, and if any provision of this permit, in the application of any provision of this permit, in the application of any provision of this permit is half invalid, the remaining provisions of this permit shall continue in full force and effect. (32)

State of Illinois Environmental Protection Agency Instructions for Completing Discharge Monitoring Reports

The purpose of these instructions is to inform Illinois NPDES permittees how Discharge Monitoring Reports (DMR's) should be completed. Please take the time to review these instructions carefully and compare them with procedures currently in use.

Definitions

NPDES means the system created under Section 307, 402, 318, and 405 of the Clean Water Act for administering a permit program. NPDES stands for National Pollutant Discharge Elimination System.

USEPA means the United States Environmental Protection Agency.

IEPA means the Illinois Environmental Protection Agency.

Agency means IEPA.

Board means the Illinois Pollution Control Board.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24 hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass (quantity), the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day. To express the mass discharged use one of the following formulas:

Pounds per day \approx concentration (mg/I) x flow (mgd) x 8.34 Kilograms per day \approx concentration (mg/I) x flow (mgd) x 3.79

Maximum Daily Discharge Limitation (daily maximum) means the highest allowable daily discharge.

Average Monthly Discharge Limitation (30 day average) means the highest allowable average of daily discharge over a

calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Discharge Limitation means the highest allowable average of daily discharges over a calendar week, usually Sunday through Saturday, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week. Where a new month starts in the middle of a week, that weekly average shall be reported with the month in which the Wednesday of that week falls.

Grab Sample means an individual sample of at least 100 milliliters collected at a randomly selected time over a period not exceeding 15 minutes.

Aliquot means a sample of specified volume used to make up a total composite sample.

24 Hour Composite Sample means a combination of at least 8 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24 hour period.

8 Hour Composite Sample means a combination of at least 3 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over an 8 hour period.

Flow Proportioned Composite Sample means a combination of sample aliquots of at least 100 milliliters collected at periodic intervals such that a sample aliquot is collected when a specified amount of flow passes the sampling point or that when a sample aliquot is collected its volume will be proportioned to the flow at that time.

Included is a copy of a Discharge Monitoring Report with numbers at various points of data entry. The numbers correspond to the following paragraphs which explain how to enter the required data. **Storet Numbers for Commonly Required Tests** 00610 Ammonia Nitrogen 01002 Arsenic Region 1 01007 Barium (total) **Biochemical Oxygen Demand (BOD)** 00310 Cadmium (total) 01027 50060 Chlorine Residual Region II Chromium (hexavalent) 01032 01033 Chromium (trivalent) 01042 Copper (total) 00720 Cyanide 00300 Dissolved Oxygen **Fecal Coliform** 31616 Fluoride (total) 00951 Region III Iron (total) 01045 Iron (dissolved) 01046 01051 Lead (total) 01055 Manganese (total) Mercury (total 71900 Nickel (total) 01067 00550 Oil (Hexane soluble) Region IV pH (field determination) 00440 pH (laboratory determination) 00403 3C0 TT **Phenois** 32730 Region V **Phosphorus** 00665 Selenium (total) 01145 01077 Silver Temperature 00010 Total Dissolved Solids (TDS) 00515 Total Suspended Solids (TSS) 00530 Zinc (total) 01092 Region VI Region VII While it is not mandatory, it would be helpful to Agency personnel assigned to sorting Discharge Monitoring Reports to write on the top of the DMR in which region this facility is located. The map is provided to show the regional boundaries for the Division of Water Pollution Control.